F. ..ENT COOPERATION TREA.

	From the INTERNATIONAL	BUREAU
Í		

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)
28 September 2001 (28.09.01)

International application No.
PCT/GB00/03717

International filing date (day/month/year)
27 September 2000 (27.09.00)

Applicant

AIRD, Robert, Frederick et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	27 April 2001 (27.04.01)
•	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Anman QIU

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

Copy for the designated Office (DO/US)

PA. ENT COOPERATION TREAT

PCT NOTIFICATION OF THE RECORDING	From the INTERNATIONAL BUREAU
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422)	FAULKNER, Thomas, John fj Cleveland 40-43 Chancery Lane London WC2A 1JQ ROYAUME-UNI
Date of mailing (day/month/year) 21 August 2001 (21.08.01)	
Applicant's or agent's file reference	IMPORTANT NOTIFICATION
International application No. PCT/GB00/03717	International filing date (day/month/year) 27 September 2000 (27.09.00)
The following indications appeared on record concerning: the applicant the inventor X	the agent the common representative
Name and Address INTELLIGENT SECURITY LTD. 40 Occam Road Surrey Technology Centre The Surrey Research Park Guildford Surrey GU2 7YG United Kingdom	Telephone No. +44 1483 295030 Facsimile No. +44 1483 295031 Teleprinter No.
The International Bureau hereby notifies the applicant that the X the person X the name X the additional transfer in X the person X the name X the additional transfer in X the person X the name X the additional transfer in X the person X the name X the additional transfer in X the person X the name X the additional transfer in X the person X the name X the	
Name and Address FAULKNER, Thomas, John fj Cleveland 40-43 Chancery Lane London WC2A 1JQ United Kingdom	Telephone No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to: X the receiving Office X the International Searching Authority the International Preliminary Examining Authority	X the designated Offices concerned the elected Offices concerned other:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer DELMAS Dominique Telephone No.: (41-22) 338.83.38

Copy for the Elected Office (EO/US)

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	From the INTERNATIONAL BUREAU		
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	FAULKNER, Thomas, John fj Cleveland 40-43 Chancery Lane London WC2A 1JQ ROYAUME-UNI		
29 September 2001 (29.09.01)			
Applicant's or agent's file reference TJF/JY/35677	IMPORTANT NOTIFICATION		
International application No. PCT/GB00/03717	International filing date (day/month/year) 27 September 2000 (27.09.00)		
The following indications appeared on record concerning: X the applicant X the inventor	the agent the common representative		
Name and Address	State of Nationality State of Residence		
	Telephone No.		
	Facsimile No.		
	Teleprinter No.		
2. The International Bureau hereby notifies the applicant that to X the person the name the add			
Name and Address	State of Nationality State of Residence GB GB		
COLBY, Edward, Grellier Sentec Limited Terrington House 13-15 Hills Road	Telephone No.		
Cambridge CB2 1GE United Kingdom	Facsimile No.		
•	Teleprinter No.		
3. Further observations, if necessary: Addition of inventor and applicant for US only.			
4. A copy of this notification has been sent to:			
X the receiving Office	the designated Offices concerned		
the International Searching Authority	X the elected Offices concerned		
X the International Preliminary Examining Authority	other:		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Anman QIU		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		

-Copy for the Elected Office (EO/US)

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PA . ÉNT	COOPERATION	TREA٦،

	From the INTERNATIONAL BUREAU		
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	FAULKNER, Thomas, John fj Cleveland 40-43 Chancery Lane London WC2A 1JQ ROYAUME-UNI		
28 September 2001 (28.09.01)			
Applicant's or agent's file reference TJF/JY/35677	IMPORTANT NOTIFICATION		
International application No. PCT/GB00/03717	International filing date (day/month/year) 27 September 2000 (27.09.00)		
The following indications appeared on record concerning: X the applicant X the inventor	the agent the common representative		
Name and Address	State of Nationality State of Residence		
	Telephone No.		
	Facsimile No.		
	Teleprinter No.		
2. The International Bureau hereby notifies the applicant that to X the person the name the add			
Name and Address BLACK, Michael, John	State of Nationality State of Residence GB GB		
Sentec Ltd. Terrington House 13-15 Hills Road	Telephone No.		
Cambridge CB2 1GE United Kingdom	Facsimile No.		
•	Teleprinter No.		
3. Further observations, if necessary: Addition of inventor and applicant for US only.			
4. A copy of this notification has been sent to:			
X the receiving Office	the designated Offices concerned		
X the International Searching Authority The International Preliminary Examining Authority	X the elected Offices concerned other:		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Anman QIU		
Facsimile No.: (41-22) 740.14.35	Telephone No : (41-22) 338 83 38		



From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

FAULKNER, Thomas, John **fJ CLEVELAND** 40-43 Chancery Lane London WC2A 1JQ GRANDE BRETAGNE

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** (PCT Rule 71.1)

Date of mailing (day/month/year)

24.01.2002

Applicant's or agent's file reference

TJF/JY/35677

PCT/GB00/03717

International application No.

International filing date (day/month/year)

27/09/2000

Priority date (day/month/year)

IMPORTANT NOTIFICATION

27/09/1999

Applicant

VSD LTD et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

1 23 JAN 2012

OLINYBLANG

Name and mailing address of the IPEA/

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas

Tel. +31 70 340 - 2040 Tx: 31 651 epo nl

Fax: +31 70 340 - 3016

Authorized officer

Cardenas, C

Tel.+31 70 340-3370





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5200 2.5 JAN 2802

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

• •	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
TJF/JY/3		TOTT ON THE TABLE	Training Examination Trapert (Family 270 Trapert
	al application No.	International filing date (day/mo	
PCT/GB	00/03717	27/09/2000	27/09/1999
International G08B17/		or national classification and IPC	
Applicant			
VSD LTE	et al.		•
		kamination report has been prepa ant according to Article 36.	ared by this International Preliminary Examining Authority
2. This	REPORT consists of a total	al of 5 sheets, including this cove	er sheet.
b (:	een amended and are the	basis for this report and/or sheet on 607 of the Administrative Instru	of the description, claims and/or drawings which have ets containing rectifications made before this Authority ructions under the PCT).
3. This i	eport contains indications Basis of the report	relating to the following items:	
II	☐ Priority		
Ш			, inventive step and industrial applicability
V			d to novelty, inventive step or industrial applicability;
VI	☐ Certain documents	· -	1 "
VII	☐ Certain defects in t	he international application	
VIII	☑ Certain observation	ns on the international application	n
Date of suit	omission of the demand	Date	e of completion of this report
Date Of Suf	mission of the demand	Date	o of completion of this report
27/04/20	01	24.0	01.2002
	mailing address of the internal examining authority:		horized officer
9))	European Patent Office - P. NL-2280 HV Rijswijk - Pays Tel. +31 70 340 - 2040 Tx:	Bas Cha	ateau, J-P
	Fax: +31 70 340 - 3016		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7



International application No. PCT/GB00/03717

I. Basis of the report

1. With regard to the elements of the international application (Replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally fit and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:			
	1-8		as originally filed
	Cla	ims, No.:	
	1-9		as originally filed
	Dra	wings, sheets:	
	1/1		as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	se elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	iblication of the international application (under Rule 48.3(b)).
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	ently to this Authority in written form.
		furnished subsequ	ently to this Authority in computer readable form.
			t the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement tha listing has been fu	t the information recorded in computer readable form is identical to the written sequence rnished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:



International application No. PCT/GB00/03717

		the drawings,	sheets:
5.		•	established as if (some of) the amendments had not been made, since they have been rond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, i	f necessary:
V.			der Article 35(2) with regard to novelty, inventive step or industrial applicability;

1. Statement

Novelty (N)

Yes:

Claims 6,7,8,9

No:

Claims 1-5

Inventive step (IS)

Yes: Claims 6,7,9

Claims 1-5,8

Industrial applicability (IA)

_

Yes: No:

No:

Claims 1-9 Claims

. . . .

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP-A-583131 D2: US-A-5153 722

D1 discloses a flame detection algorithm that processes a sequence of video images, to detect sequences of images of flames (abstract). Therefore, the subjectmatter of Claim 1 is not new (Article 33.2 PCT).

D1 discloses also the implementation of the algorithm in a system with a video source and an alarm triggered when a flame is detected. Although the frame grabber is not explicitly mentioned, the skilled person knows that usually a frame grabber is used in order to digitize the images (see D2,abstract). Therefore, the subject-matter of Claim 2 is not new (Article 33.2 PCT).

D1 discloses also the filtering of live images so that changes within a well-defined frequency band, characteristic of flame-like behaviour, is registered (col.7, lines 4-20). Therefore, the subject-matter or Claim 3 is not new (Article 33.2 PCT).

D2 discloses an algorithm that classifies changes in a sequence of images between flicker-like behaviour and non flicker-like behaviour (col.5, lines 40-65). D1 discloses also the discrimination of changes the flickering rate of which are above or not a certain threshold, i.e. the classification between flicker-like behaviour and non flicker-like behaviour. Therefore, the subject-matter of Claim 4 is not new (Article 33.2 PCT).

The steps of Claim 5 are all disclosed in D1 (see above cited explanations). Therefore, the subject-matter of Claim 5 is not new (Article 33.2 PCT).

The additional step of Claim 6, i.e the computing of edge to volume ratio in the binary image is a further condition referring to the size of the flames in order to give ot not an alarm signal. A similar step is diclosed in D2 (computing of the size of the flame area: col.5, line65-col.6, line 4) in order to trigger or not a fire suppressant unit. However, the aim is different (Claim 7) as are the features calculated (Claim 6).

Claim 8 cannot be seen as inventive, as the optimality criteria is a well known

EXAMINATION REPORT - SEPARATE SHEET

criteria almost used in every method (Article 33.3 PCT).

Re Item VIII

Certain observations on the international application

Although claims 1-4 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims there- fore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Hence, claims 1-4 do not meet the requirements of Article 6 PCT.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G08B17/12 G06T7/00					
According to	According to International Patent Classification (IPC) or to both national classification and IPC				
	SEARCHED				
IPC 7	ocumentation searched (classification system followed by classifica G08B G06T	tion symbols)			
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields so	earched		
Electronic d	data base consulted during the international search (name of data b	pase and, where practical, search terms used)		
WPI Da	ta, PAJ, INSPEC, EPO-Internal				
-	Parks Andrews				
	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.		
X	EP 0 583 131 A (KIDDE-GRAVINER L 16 February 1994 (1994-02-16) column 7, line 10 - line 14 column 7, line 4 - line 6	IMITED)	1-3		
Υ	Corumn 7, Trie 4 - Trie 6		4-9		
Υ	US 5 153 722 A (A. DONALD GOEDEK 6 October 1992 (1992-10-06) column 5, line 40 -column 6, lin		4-9		
		•			
Fur	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.		
"A" docum consi "E" earlier filing "L" docum which citatic "O" docum other "P" docum later	nent defining the general state of the art which is not detect to be of particular relevance document but published on or after the international date sent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means sent published prior to the international filling date but than the priority date claimed e actual completion of the international search	*T* later document published after the interest or priority date and not in conflict with cited to understand the principle or the invention *X* document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the do *Y* document of particular relevance; the cannot be considered to involve an in document is combined with one or more ments, such combination being obvious in the art. *&* document member of the same patent Date of mailing of the international sea	the application but early underlying the stairned invention be considered to current is taken alone stairned invention ventive step when the ore other such docuus to a person skilled		
	mailing address of the ISA	Authorized officer			
Ivalie all	Hailing accress of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Chateau, J-P			

INTERN ONAL SEARCH REPORT

Information on patent family members

Interional Application No
PCT/GB 00/03717

	document search report		Publication date	Patent family member(s)		Publication date
EP 58	3131	Α	16-02-1994	GB US	2269454 A,B 5510772 A	09-02-1994 23-04-1996
US 51	53722	A	06-10-1992	NONE		